DOCUMENT RESUME

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SPONS AGENCY	Oregon State Dept. of Education, Salem. Career and Vocational Education Section.
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IDENTIFIERS	Oregon

ABSTRACT

This project was conducted to develop and validate an evaluation instrument for computer programs with application in vocational education. The project consisted of six components: (1) review of existing evaluation models for educational computer software; (2) development of the evaluation instrument: (3) testing the evaluation instrument; (4) modification and revision of the evaluation instrument; (5) diffusion of the evaluation instrument; and (6) project administration. The evaluation instrument was developed with the cooperation and assistance of an active advisory committee, which recommended the incorporation of a user's guide into the instrument. The instrument and guide were developed to ensure freedom from sex and racial/ethnic bias and stereotyping and to meet the special needs of learners who are disadvantaged or handicapped or who have limited English competence. The evaluation instrument developed through this project will allow vocational teachers to evaluate software, hardware requirements, and usability. As a result of the project, the following recommendations were made: (1) evaluation instruments be disseminated to all secondary and community college vocational teachers; (2) a data-based computer management system be established to file the completed evaluations by vocational program area and level; and (3) the system be established as part of the Oregon State University/Oregon Department of Education Program Improvement Center to collect and maintain the database and disseminate the evaluations to teachers around the state. (The evaluation instrument and user's guide are included in the report.) (KC)

ED233160

OR83102

FINAL REPORT

THE DEVELOPMENT OF AN EVALUATION INSTRUMENT FOR COMPUTER PROGRAMS WITH APPLICATION IN VOCATIONAL EDUCATION

PROJECT DIRECTOR

SAM STERN

Oregon State University

May 9, 1983

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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Department of Education
Career and Vocational Education Section

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CE 036 621

Appendix B1
(Completed by Project Director/Principal Investigator)

ABSTRACT

A. PROJECT DESCRIPTION

1. Project Title: Development of an Evaluation Instrument for Computer Programs with Application in Voc. Ed.

2. Principal Investigator and Organization: Sam Stern
Department of Vocational Education OSU

Address: Corvallis, Oregon

Telephone: (503) 754-2733

3. Special Population Target Groups
Check Primary Group(s)

Racial/Ethnic

American Indian or Alaskan Native	____	Limited English Proficiency	____
Asian or Pacific Islander	____	Handicapped	x
Black, Non-Hispanic	____	Disadvantaged	x
Hispanic	____	Displaced Homemaker	____
White, Non-Hispanic	____	Single Head of Household	____
		Part to Full-Time Employment	____
		Persons in Non-Traditional Vocations	____
		Others ____	____

4. Number of Students Affected 40 ; Number of Staff Affected 10

5. Project Objectives:

To develop and test an evaluation instrument for computer programs with application in vocational education.

6. Project Procedures:

1) Review existing evaluation models
2) Develop the evaluation instrument
3) Test the evaluation instrument
4) Revise the instrument
5) Diffusion

7. Project Products:

1) evaluation instrument
2) test evaluations

8. Expected Contribution or Potential Impact on Vocational Education:

Provide vocational educators with a means of evaluating and selecting computer programs with application in voc. ed.

9. Will the product be placed in a classroom within your district in the five years?

____ Yes ____ No x NA

APPENDIX C

B U D G E T

TITLE OF PROJECT Development of an Evaluation Instrument for Computer Programs with Application in Vocational Education

	TOTAL COSTS	LOCAL COSTS	FEDERAL COSTS
A. 1000 Instruction			
100 Salaries			
200 Employee Benefits			
300 Travel			
Other Purchased Services . . .			
400 Supplies			
Instruction Subtotal			
B. 2210 Improvement of Instructional Services			
100 Salaries	2608.41		2608.41
200 Employee Benefits	802.44		802.44
300 Travel	-0-		-0-
Other Purchased Services . . .	-0-		-0-
400 Supplies	528.96		528.96
Improvement of Instructional Services Subtotal			
C. 2220 Educational Media Services			
100 Salaries			
200 Employee Benefits			
300 Purchased Services			
400 Supplies			
Educational Media Services Subtotal			
D. 2500/2600 Support Services Business/ Central			
Indirect Cost @ 8 %	315.19		315.19
Support Service Business and Central Subtotal			
E. Other (include explanation)			
Other Subtotal			
COLUMN TOTAL	4255.00		4255.00

THE DEVELOPMENT OF AN EVALUATION INSTRUMENT FOR
COMPUTER PROGRAMS WITH APPLICATION IN VOCATIONAL EDUCATION

OREGON STATE UNIVERSITY

Background

The purpose of this project was to develop and validate an evaluation instrument for computer programs with application in vocational education. Specific outputs of this project were:

1. Camera ready copy and 50 printed copies of the final draft of the evaluation instrument.*
2. Three copies of the final report of project activities.

The project consisted of six components. These components and their objectives were as follows:

Component 1: Review of existing evaluation models for educational computer software

- Objective 1.1 A process was developed for reviewing existing literature on the use of computers in education.
- Objective 1.2 An advisory group was formed with representation from secondary schools, community colleges, higher education, state department, regional coordinators, and the computer software industry.
- Objective 1.3 Existing evaluation agencies involved in evaluating computer software were contacted.

Component 2: Development of the evaluation instrument

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*The handbook was developed in a manner that assures that the methodology is free of sex and racial/ethnic bias and stereotyping and meets the special needs of learners who are disadvantaged or handicapped or who have limited-English competence.

Objective 2.1 A process was developed for reviewing existing evaluation instruments and indentifying their major components.

Objective 2.2 A format for the evaluation instrument was developed.

Objective 2.3 An initial draft of the evaluation instrument was developed.

Component 3: Testing the evaluation instrument

Objective 3.1 Public domain and commerical software with application in vocational education was identified for use in the validation of the evaluation instrument.

Objective 3.2 The initial draft of the evaluation instrument was used to evaluate software with application in vocational education.

Objective 3.3 A report was made to the advisory committee on the performance of the evaluation instrument.

Component 4: Modification and revision of the evaluation instrument

Objective 4.1 An analysis of the results of the performance of the evaluation instrument and the comments of the advisory committee was made.

Objective 4.2 The evaluation instrument was revised and resubmitted to the advisory committee.

Component 5: Diffusion of the evaluation instrument.

Objective 5.1 The final draft of the evaluation instrument was printed.

Objective 5.2 The final report of the project was prepared.

Objective 5.3 The evaluation instrument and a presentation of the project was made to the regional coordinators.

Component 6: Project Administration

Objective 6.1 Planning, organization, and coordination of project activities were effective.

Objective 6.2 Project activities were controlled and directed in an effective manner.

The evaluation instrument was developed with the cooperation and assistance of an active advisory committee, see Appendix B. The advisory group met twice to identify the major components, format, and specific items of the evaluation instrument. The Principal investigator assumed major responsibility for the literature review, review of existing evaluation models, development of all the drafts, validation of the instrument, and communication with the advisory committee.

Major Accomplishments and Outcomes

The major project events and activities are illustrated in the Project Time Line which appears in Appendix A. The first component, review of existing evaluation models, was completed in mid-November. The second component, the identification of the major evaluation instrument components and the first draft, was completed in mid-December. A review of the first draft of the instrument, see Appendix D, was completed at the first meeting of the advisory committee on December 13, 1982. The third component of the project, validation of the initial draft of the instrument was completed by mid-January. During that time the instrument was used on both public domain and commercial programs with application in vocational education. Revisions and modifications were made in the instrument to go on the basis of the test evaluations. The second draft, see Appendix F, the evaluation instrument, was presented to the advisory committee for review at the second advisory committee meeting on March 1, 1983, see Appendix E. Based on the comments and recommendations of the advisory committee final, final revisions and modifications were completed. The final version of the evaluation instrument was printed by April 1, 1983.

Major Problems

The project experienced no serious problems. Several minor problems were experienced. There was a modest delay in starting the project due to communications of grant award. The completion of the validation testing and final revisions on the evaluation took more time than anticipated. Neither of these modest problems jeopardized the successful completion of the project.

Evaluation

A third party evaluation was not provided for in this project. Rather, the advisory committee and the project monitor provided regular and active monitoring of the project activities. Both the advisory committee and the project monitor were active participants in this project. Their assistance made a significant contribution to the evaluation instrument.

Summary and Conclusions

The purpose of this project was to develop an evaluation instrument for computer programs with application in vocational education. There is an increasing need for an evaluation instrument specifically designed for vocational education that can be readily used by vocational educators at the secondary and community college level. The evaluation instrument was designed to be used. Every effort was made to increase the ease and likelihood of use. With the assistance of the advisory committee a user's guide was incorporated into the instrument. The evaluation instrument and user's guide was developed in a manner that assures freedom from sex and racial/ethnic bias and sterotyping and meets the special needs of learners who are disadvantaged or handicapped or who have limited English competence.

Conclusions

As more and more vocational teachers incorporate the use of microcomputers into their curriculum, there will be an increasing need for the identification and evaluation of computer software with application in vocational education. This evaluation instrument will allow individual vocational teachers to evaluate software they have had first hand experience with. Using the instrument with the user's guide, they will be able to supply descriptive information, hardware requirements, and information regarding the content and usability of computer software. These completed evaluations can help other vocational instructors identify and choose quality software in their vocational area.

Recommendations

Based on the experience gained in this project the following recommendations concerning the use and evaluation of microcomputer software in vocational education are offered.

To assist secondary and community college vocational teachers in the evaluation of computer programs with application in vocational education the evaluation instruments should be disseminated to all secondary and community college vocational teachers.

A data-based computer management system should be established to file the completed evaluations by vocational program area and level. This system should be maintained and operated from one source so vocational teachers around the state can send their evaluations and request evaluations to and from one location.

This system should be established as part of the OSU/ODE Program Improvement Center. Such a system should be able to collect and maintain the data base of evaluations and disseminate the summative evaluations to vocationsl teachers around the state.

To help address the growing needs for assistance in the use of microcomputers in vocational education a methodology for computer literacy in vocational education programs should be developed as part of the "Basic Skills in Vocational Education Series."

Project Follow-up

Teachers throughout the state have indicated a strong interest in both the use of the instrument and the potential results of the evaluations.

Vocational teachers in all program areas participating in summer courses on the uses of microcomputers in vocational education will use the evaluation instrument to evaluate software in their area of vocational education.

APPENDICES

APPENDIX

Appendix A Proposed Project Time Line

Appendix B Advisory Committee

Appendix C Advisory Committee Communications

Appendix D First Draft

Appendix E Advisory Committee Meeting

Appendix F Second Draft

Appendix G Final Draft

APPENDIX A

PROJECT TIME LINE

PROJECT COMPONENTS	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY
1.	Review Existing Models				
2.		Develop Instrument			
3.		Identify/Acquire Software	Evaluate Software		
4.				Revise/Modify Instrument	
5.					Distribute/ Present Instrument and Final Report
6.	PROJECT ADMINISTRATION				

◯ Advisory Committee Meeting Review

ADVISORY COMMITTEE

Ms. Wanda Monthey
Dis. of Voc. Ed.
OR Dept. of Ed.
OR Bank Tower Bldg.
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Same, OR 97310 (378-2713)

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Mr. Werner Brandt
Chemeketa Community College
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Salem, OR 97309 (399-5101)

Mr. Alan Todd
Hewlett-Packard, Corvallis Division
4U-E3
Corvallis, OR 97330

Dr. Alan Schultz
Ad Hoc Member
OR Dept. of Ed.
700 Pringle Parkway SE
Salem, OR 97310

School of Education
Vocational-Technical
Education Division

Oregon State University

Corvallis, Oregon 97331

(503) 754-2733

November 16, 1982

Dear :

We have completed the first phase of the CDE sponsored project titled, The Development of an Evaluation Instrument for Computer Programs with Application in Vocational Education. In the first phase we reviewed existing evaluation instruments for content and format. Enclosed is a matrix of the review showing the major components addressed by each evaluation instrument. These components may or may not be appropriate for our instrument.

To help assess whether or not these components are appropriate, I am enclosing a questionnaire for your evaluation. Please use the enclosed self addressed envelope to return the questionnaire.

Our first advisory committee meeting will be held in Corvallis at Oregon State University during the week of December 13th. On the enclosed questionnaire please indicate your preference for a meeting date.

Thank you for your assistance. Your input on the development of this instrument is an essential part of the project.

Sincerely,

Sam Stern
Principal Investigator
Vocational-Technical Education
Oregon State University

wlt

Enclosures

DEVELOPMENT OF AN EVALUATION INSTRUMENT FOR COMPUTER PROGRAMS WITH APPLICATION IN VOCATIONAL EDUCATION

STATEMENT OF PURPOSE:

The evaluation instrument for computer programs with application in vocational education will be used by secondary and community college vocational instructors to evaluate the quality and appropriateness of computer software. The instrument should be concise, usable, and still provide enough information to help vocational instructors identify and choose appropriate computer software.

ADVISORY COMMITTEE QUESTIONNAIRE #1

OSU Clearinghouse for Computer Programs with Application in Vocational Education

Oregon State University

Vocational Education Department
Oregon State University
Corvallis, Oregon 97331

EVALUATION COMPONENT RATINGS:

The following are major components used by existing evaluation instruments. Please rate them using the provided code. Please add any components you feel should be included.

5. Must be included.
4. Highly desired but not required.
3. Minimally desired.
2. Should be incorporated into another component.
1. Should not be included.

COMPONENT	RATING
Vocational area	_____
Intended user	_____
Interaction	_____
Content validity	_____
Instructional prerequisites	_____
Program mode	_____
Reading level	_____
Ease of use	_____
Required hardware	_____
Documentation	_____
Free of sex stereotyping	_____
Disadvantaged & handicapped	_____
Limited english speaking	_____
Use of computer assisted medium	_____
Strengths/Weaknesses	_____
	_____
	_____
	_____

ADVISORY COMMITTEE MEETING:

Please cross out any day(s) that you cannot attend a meeting.

Monday	December 13	3:00 - 5:00
Tuesday	December 14	3:00 - 5:00
Wednesday	December 15	3:00 - 5:00
Thursday	December 16	3:00 - 5:00

EVALUATION COMPONENT MATRIX

EVALUATION INSTRUMENT

	CCN #1	CCN #2	MS #1	MS #2	CT	SEC	SME	TCC	CPR	1	2	3	4	5	6	7	8	9	10	11
Vocational area		X	X	X		X		X	X	X	X	X	X	X	X		X	X	X	
Intended user		X			X	X					X	X	X	X	X		X		X	
Interaction		X			X	X						X		X			X			
Content validity	X	X	X	X	X	X		X		X		X	X	X		X	X	X	X	X
Instructional prerequisites		X	X	X		X		X	X	X		X	X	X	X		X	X	X	
Program mode				X	X	X		X				X	X	X		X	X			
Reading level														X		X			X	X
Ease of use	X	X	X		X	X	X	X	X	X	X	X	X		X	X		X	X	X
Required hardware	X		X	X	X			X			X		X	X				X		
Documentation		X	X	X	X		X	X					X		X	X	X			X
Free of sex stereotyping			X					X								X			X	X
Disadvantaged & handicapped		X	X													X	X			
Limited english																				
Use of comp. asst. medium		X	X					X		X						X	X	X		X
Strengths/ Weaknesses			X	X					X											X

LEGEND

CCN #1 - Computer Classroom News, article reviews and Profile.

CCN #2 - Computer Classroom News, article--A Level-headed Guide to Software Evaluation.

MS #1 - MicroSIFT Evaluator's Guide from Northwest Regional Educational Laboratory.

MS #2 - MicroSIFT Courseware Evaluation from Northwest Regional Educational Laboratory.

CT - The Computing Teacher, article--Software Evaluation Form and Checklist by Bob Hilgenfeld, Rock Springs, Wyoming.

SEC - Software Evaluation Checklist from the National Council of Teachers of Mathematics.

SME - School Microware Evaluation Form from School Microware Directory.

TCC - TC Courseware Evaluation Form from Microcomputer Resource Center, Columbia University.

CPR - Computer Program Review

1-11 - Evaluation forms set up by preservice and inservice teachers at Oregon State University.

School of Education
Vocational-Technical
Education Division

Oregon State University

Corvallis, Oregon 97331 (503) 754-2733

February 16, 1983

Dear

Enclosed are ten copies of the draft of the vocational education software evaluation instrument. I am grateful to you and the entire advisory committee for the good ideas and suggestions that you brought to the development of this instrument. We struggled to stick to our original goal of a single page (2 sides) instrument and still cover the important items.

Please review the instrument and if you have access to software with application in vocational education, try it out. Our final advisory committee will be held during the first week of March; either Tuesday, March 1 or Thursday, March 3 from 3:15 to 5:00 at Oregon State University. During this meeting we will review potential revisions and modifications for the final draft of the instrument.

Please indicate your preference for a meeting date on the enclosed postcard and return it to me.

Thank you again for your assistance. Your participation in the development of this instrument has been an important part of the project.

Sincerely,

Sam Stern
Principal Investigator
Vocational-Technical Education
Oregon State University

SS:wlt

Enclosures

OSU Clearinghouse for Computer
Programs with Application in
Vocational Education

Vocational Education Department
Oregon State University
Corvallis, Oregon 97331

(503) 754-2733

December 8, 1982

Dear

Thank you for your prompt response to the advisory committee questionnaire. Based on your responses our first meeting will be held from 3:00 to 5:00 on Tuesday, December 14 in room 106 in the Oregon State University Memorial Union. Enclsoed is a map showing the Union Building and the parking area.

During this meeting we will review the analysis of existing evaluation models and work on our developmental model.

Looking forward to seeing you.

Sincerely,

Sam Stern
Principal Investigator
Vocational-Technical Education
Oregon State University

wlt

Enclosure

Development of an Evaluation Instrument
For Computer Programs with
Application in
Vocational Education

INSTRUMENT DEVELOPMENT WORKSHEET

Descriptive

Program Title:

Author/Vendor:

Cost:

Date of Review:

Vocational Subject Area:

Grade Levels:

Execution Time: _____ minutes (estimated) for average use.

Approximate Reading Level:

Operating System:

Required Memory:

Storage Medium: _____ Disk _____ Cassette

Content

Low				High	
1	2	3	4	5	Soundness or Validity
1	2	3	4	5	Compatability with Other Materials
1	2	3	4	5	Career Information
1	2	3	4	5	Free of Sex Stereotyping

INSTRUMENT DEVELOPMENT WORKSHEET

Program Use(s)

_____ drill or practice _____ utility

_____ tutorial _____ simulation

_____ informational _____ problem solving

_____ other _____

_____

Usability

Low				High	
1	2	3	4	5	Written Documentation
1	2	3	4	5	Quality of Directions
1	2	3	4	5	Screen Formatting
1	2	3	4	5	Need for External Information
1	2	3	4	5	System Errors
1	2	3	4	5	Ease of User Input
1	2	3	4	5	Student Involvement

INSTRUMENT DEVELOPMENT WORKSHEET

Use of Computer Medium

None	Low				High	
0	1	2	3	4	5	Use of Graphics
0	1	2	3	4	5	Use of Sound
0	1	2	3	4	5	Use of Color
0	1	2	3	4	5	Use of Printer
0	1	2	3	4	5	Use of Light Pen

Development of an Evaluation Instrument
For Computer Programs with
Application in
Vocational Education

Advisory Committee Meeting
Tuesday, March 1, 1983

AGENDA

1. Introduction

2. Project Update

   - Continued review of existing instrument.

   - Identification of software.

3. Revisions/Modifications of Draft

   - Committee review

   - Other input

4. Where To Go From Here?

   - How instrument may be used.

   - Preparation of final report and presentation.

Vocational Education Software Evaluation

DESCRIPTIVE

Program Name: _____

File Names: _____

Author/Vendor: _____

_____

_____

Cost: _____ ☐ Copywritten ☐ Public Domain

Vendor Support: _____ Updates ☐ No ☐ Yes ____ Cost

Date of Review: _____ Reviewer: _____

Vocational Subject Area(s): _____

Grade Levels: Bracket zone

K 1 2 3 4 5 6 7 8 9 10 11 12 C.C.

Minimum Execution Time: _____ Minutes

HARDWARE SPECS

Operating System: _____ No. of Disk Drives: _____

Required Memory: ☐ 8K ☐ 16 ☐ 24 ☐ 32 ☐ 48 ☐ 64K

Required Peripherals: ☐ Printer ☐ Color Monitor

☐ Numeric Pad ☐ Joystick ☐ Paddle

☐ Graphics Tablet ☐ Voice Synthesizer

DRAFT

CONTENT

Low				High	
1	2	3	4	5	Content Accuracy
1	2	3	4	5	Compatibility with Course Content/Strategies
1	2	3	4	5	Presentation of Technical Information
1	2	3	4	5	Presentation of Career Information
1	2	3	4	5	Free of Sex-Stereotyping

Comments:

USABILITY

Low				High	
1	2	3	4	5	Quality of Written Documentation
1	2	3	4	5	Quality of Directions within Program
1	2	3	4	5	Quality of Screen Format
1	2	3	4	5	Level of Student Interaction
1	2	3	4	5	Amount of Keyboarding Required

Comments:

OSU Clearinghouse for Computer Applications in Vocational Education

Vocational Education Software Evaluation (User's Guide)

PURPOSE

This software evaluation instrument was designed to help vocational teachers identify and select quality computer programs with application in vocational education. You can make a contribution to your profession by using this instrument to evaluate a computer program you are currently using. While most of the items in the instrument are self-explanatory the following instructions will help you complete the instrument.

DESCRIPTIVE

Vocational Subject Area:

Fill in the vocational subject area or areas where this computer program has application. If possible choose from the following list.

Agricultural Educ.
- Ag. Economics
- Ag. Mechanics
- Animal Science
- Leadership
- Plant Science
- Soil Science

Industrial Educ.
- Electronics
- Graphics
- Metals
- Power Mechanics
- Woods/Construction

Business Educ.
- Bookkeeping/Accounting
- Clerical/Secretarial
- Keyboarding
- Marketing/Distributive Educ.

Home Economics Educ.
- Child Care Services
- Food Service
- Human Development and Family
- Individual and Family Resource Management
- Living Environments
- Nutrition and Foods

Grade Levels:

Bracket the grade level zone this program would be most appropriate for. For example a computerized drafting program may be most appropriate for grades 9-C.C. (Community College) shown as follows:

K 1 2 3 4 5 6 7 8 [9 10 11 12 C.C.]

This document was developed pursuant to a grant from the Oregon Department of Education. However, the opinions expressed herein do not necessarily reflect the position or policies of the Oregon Department of Education, and no official endorsement should be inferred.

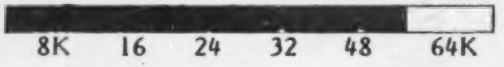
HARDWARE SPECS

Operating System:

Unfortunately not all software is compatible with all computer hardware, therefore it is especially important that you indicate what system a computer program will operate on. In this space fill in the machine the program is intended to operate on. For example: Apple II; VIC 20; IBM Personal Computer; or Radio Shack TRS III.

Required Memory:

For this item shade in the amount of memory required to operate the program. For example a program that required 48K of memory would be entered like this:



Required Peripherals:

Check only those peripherals required to operate the computer program you are evaluating.

CONTENT & USABILITY

For each of the items in the Content and Usability sections circle the number that represents the level to which each item is satisfied.

When you complete the evaluation please mail it to, or if you have any questions about the instrument contact:

Sam Stern, Director
OSU Clearinghouse for Computer Applications in Vocational Ed.
Oregon State University
Corvallis, OR 97331
(503) 754-2733

Vocational Education Software Evaluation

DESCRIPTIVE

Program Name/Files: _____

Author/Vendor: _____

_____

_____

Cost: _____ ☐Copywritten ☐Public Domain

Type of Program: ☐CAI ☐Utility

Vendor Support: ☐Yes ☐No Updates: ☐Yes ☐No

Date of Review: _____ Reviewer: _____

Vocational Subject Area(s): _____

Grade Levels: Bracket zone

K 1 2 3 4 5 6 7 8 9 10 11 12 C.C.

Estimated Execution Time: _____ Minutes

REQUIRED HARDWARE

Operating System: _____ No. of Disk Drives: _____

Required Memory: _____

Required Peripherals: ☐Printer ☐Color Monitor

☐Plotter ☐Paddle/ Joystick ☐Modem

☐Voice Synthesizer

CONTENT

	Low				High	
NA	1	2	3	4	5	Content Accuracy
NA	1	2	3	4	5	Compatibility with Course Content/Strategies
NA	1	2	3	4	5	Presentation of Technical Information
NA	1	2	3	4	5	Presentation of Career Information
NA	1	2	3	4	5	Free of Stereotyping

Comments:

USABILITY

	Low				High	
NA	1	2	3	4	5	Quality of Written Documentation
NA	1	2	3	4	5	Quality of Directions within Program
NA	1	2	3	4	5	Quality of Screen Format
NA	1	2	3	4	5	Level of Student Interaction
NA	1	2	3	4	5	Amount of Keyboarding Required

Comments:

Vocational Education Software Evaluation (User's Guide)

PURPOSE

This software evaluation instrument was designed to help vocational teachers identify and select quality computer programs with application in vocational education. You can make a contribution to your profession by using this instrument to evaluate a computer program you are currently using. While most of the items in the instrument are self-explanatory the following instructions will help you complete the instrument.

DESCRIPTIVE

Vocational Subject Area:

Fill in the vocational subject area or areas where this computer program has application. If possible choose from the following list.

Agricultural Educ.
- Ag. Economics
- Ag. Mechanics
- Animal Science
- Leadership
- Plant Science
- Soil Science

Health Services

Industrial Educ.
- Electronics
- Graphics/Drafting
- Metals
- Power Mechanics
- Woods/Construction

Business Educ.
- Bookkeeping/Accounting
- Clerical/Secretarial
- Keyboarding
- Marketing/Distributive Educ.

Forestry

Home Economics Educ.
- Child Care Services
- Clothing
- Food Service
- Individual and Family Resource Management
- Institution Management
- Nutrition and Foods

Service Occupations

Grade Levels:

Bracket the grade level zone that shows all of the grades this program could be used in. For example a computerized drafting program might be used in grades 9-C.C. (Community College) shown as follows:

K 1 2 3 4 5 6 7 8 [9 10 11 12 C.C.]

REQUIRED HARDWARE

Operating System:

Unfortunately not all software is compatible with all computer hardware, therefore it is especially important that you indicate what system a computer program will operate on. In this space fill in the machine the program is intended to operate on. For example: Apple IIe; IBM Personal Computer; or Radio Shack TRS III.

Required Peripherals:

Check only those peripherals required to operate the computer program you are evaluating.

CONTENT & USABILITY

For each of the items in the Content and Usability sections circle the number that represents the level to which each item is satisfied.

Only use NA (not applicable) when an item is wholly inappropriate for the program you are evaluating.

Please use the comments section to indicate major strengths and weaknesses.

This document was developed pursuant to a grant from the Oregon Department of Education. However, the opinions expressed herein do not necessarily reflect the position or policies of the Oregon Department of Education, and no official endorsement should be inferred.

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